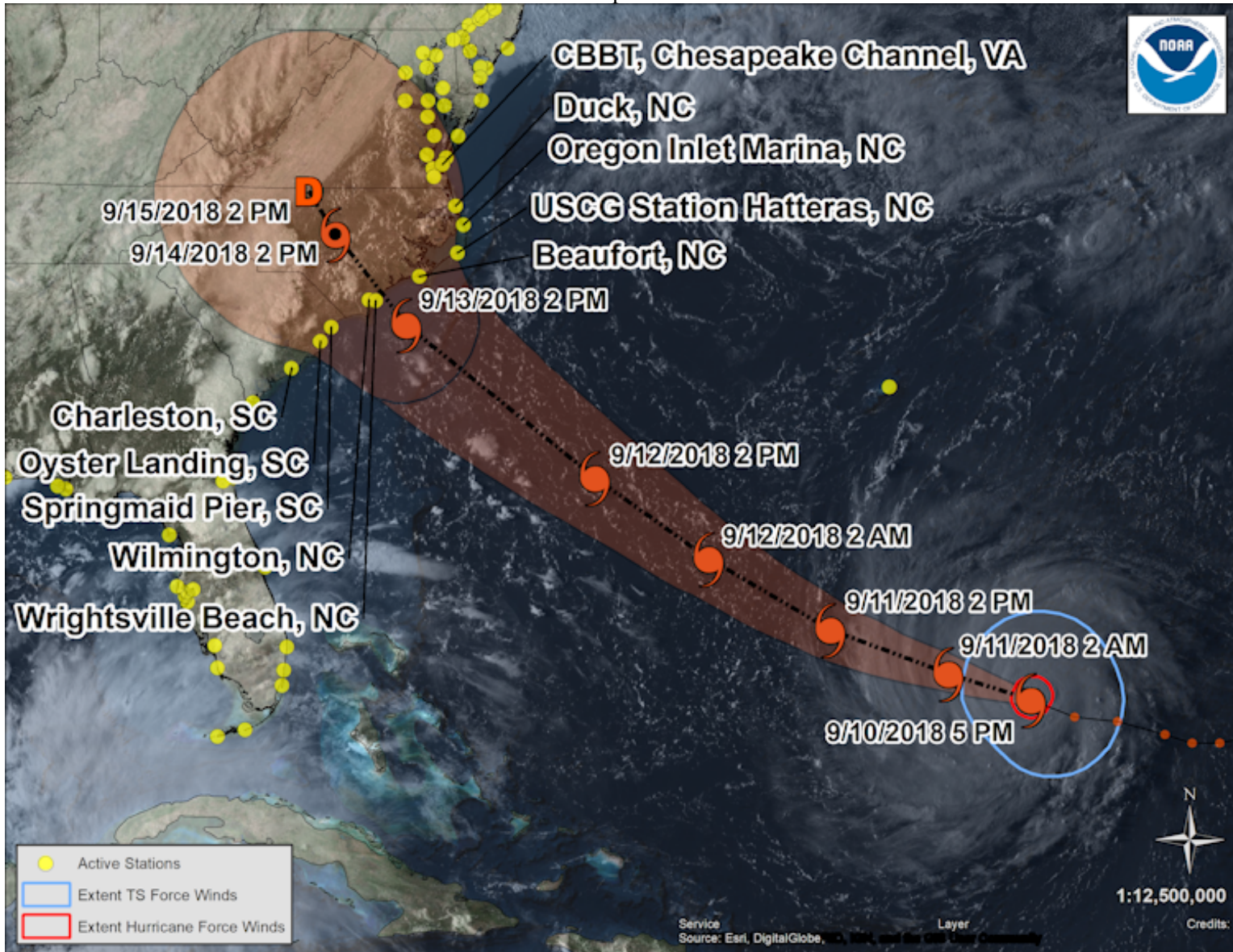


# Hurricane Florence QuickLook Posted: 18:00 AST 09/10/2018

## NOAA and NOAA Partnership Stations Relative to the Storm



## Storm Analysis

As of 09/10/2018 18:00 AST, water levels across the Mid-Atlantic are elevated due to abnormally high tide levels. From South Carolina to Pamlico Sound, water levels range from 0 to 0.9 ft above normal tide levels. From Duck, NC to the Entrance of the Chesapeake Bay, water levels are also elevated due to excessive runoff associated with recent heavy rainfall and range from 1.3 to 1.8 ft above normal tide levels.

Winds are generally breezy, ranging from 5-15 knots with slightly higher gusts. Barometric pressure is steady across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional real-time and historical inundation information for select stations affected by this storm, please visit Coastal Inundation Dashboard. For additional data, please see the Center for Operational Oceanographic Products & Services website.

For more information or archived products and reports, please visit the Storm QuickLook Homepage.

Analyst: CMF

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Select National Hurricane Center Advisory Information:

Hurricane Florence Advisory Number 46  
NWS National Hurricane Center Miami FL AL062018  
500 PM AST Mon Sep 10 2018

...FLORENCE GROWING IN SIZE AND STRENGTH...  
...HURRICANE AND STORM SURGE WATCHES COULD BE ISSUED TUESDAY MORNING...

#### WATCHES AND WARNINGS

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There are no coastal watches or warnings in effect.

Interests in the southeastern and mid-Atlantic states should monitor the progress of Florence. Storm Surge and Hurricane watches could be issued for portions of these areas by Tuesday morning.

#### DISCUSSION AND OUTLOOK

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At 500 PM AST (2100 UTC), the eye of Hurricane Florence was located near latitude 25.4 North, longitude 61.1 West. Florence is moving toward the west-northwest near 13 mph (20 km/h). This general motion with an increase in forward speed is expected during the next couple of days. A turn toward the northwest is forecast to occur late Wednesday night. On the forecast track, the center of Florence will move over the southwestern Atlantic Ocean between Bermuda and the Bahamas Tuesday and Wednesday, and approach the coast of South Carolina or North Carolina on Thursday.

Data from a NOAA Hurricane Hunter aircraft indicate that maximum sustained winds have increased near 140 mph (220 km/h) with higher gusts. Florence is a category 4 hurricane on the Saffir-Simpson Hurricane Wind Scale. Further strengthening is anticipated, and Florence is expected to be an extremely dangerous major hurricane through Thursday.

Hurricane-force winds extend outward up to 40 miles (65 km) from the center and tropical-storm-force winds extend outward up to 150 miles (240 km).

The estimated minimum central pressure from NOAA Hurricane Hunter aircraft data is 939 mb (27.73 inches).

## HAZARDS AFFECTING LAND

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SURF: Swells generated by Florence are affecting Bermuda and portions of the U.S. East Coast. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

## NEXT ADVISORY

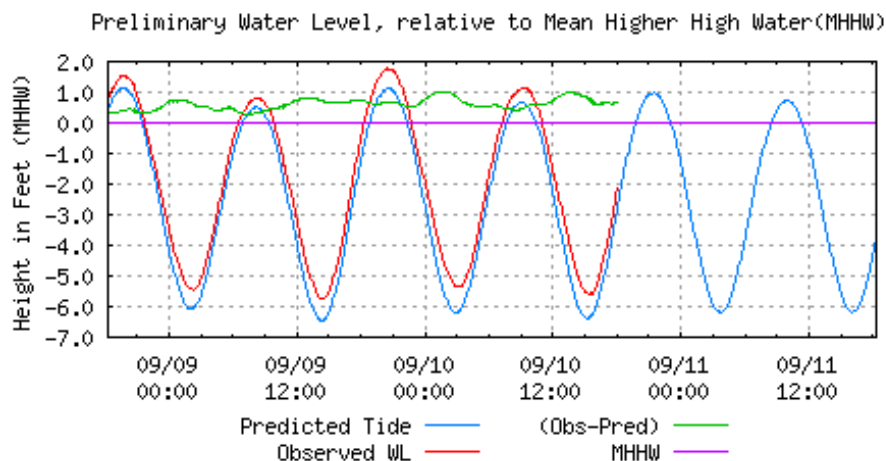
-----  
Next complete advisory at 1100 PM AST.

Forecaster Blake

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Charleston, Cooper River Entrance - Water Level](#), [Charleston, Cooper River Entrance - Winds](#), [Charleston, Cooper River Entrance - Barometric](#), [Oyster Landing \(N Inlet Estuary\) - Water Level](#), [Springmaid Pier - Water Level](#), [Wrightsville Beach - Water Level](#), [Wrightsville Beach - Winds](#), [Wrightsville Beach - Barometric](#), [Wilmington - Water Level](#), [Wilmington - Barometric](#), [Beaufort, Duke Marine Lab - Water Level](#), [Beaufort, Duke Marine Lab - Winds](#), [Beaufort, Duke Marine Lab - Barometric](#), [USCG Station Hatteras - Water Level](#), [USCG Station Hatteras - Winds](#), [USCG Station Hatteras - Barometric](#), [Oregon Inlet Marina - Water Level](#), [Oregon Inlet Marina - Winds](#), [Oregon Inlet Marina - Barometric](#), [Duck - Water Level](#), [Duck - Winds](#), [Duck - Barometric](#), [CBBT, Chesapeake Channel - Water Level](#), [CBBT, Chesapeake Channel - Winds](#), [CBBT, Chesapeake Channel - Barometric](#)

NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



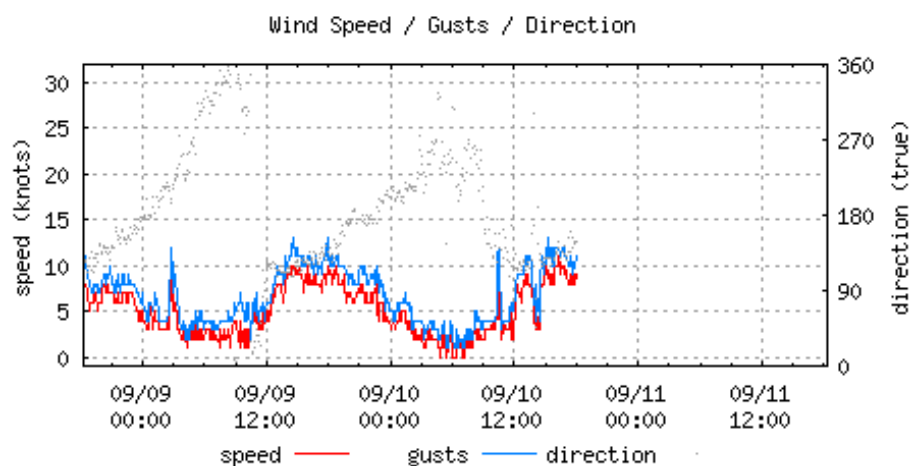
Last Observed Sample: 09/10/2018 18:06 (EDT). Data relative to MHHW

Observed: -1.91 ft. Predicted: -2.64 ft. Residual: 0.73 ft.

Historical Maximum Water Level: Sep 21 1989, 6.76 ft.

Next High Tide: 09/10/2018 21:25 (EDT), 0.97 ft.

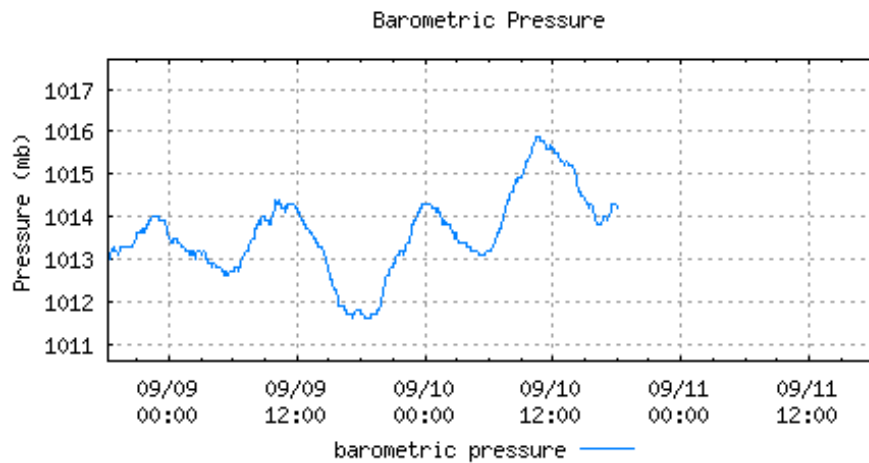
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 09/10/2018 18:06 (EDT)

Wind Speed: 9 knots Gusts: 11 knots Direction: 147° T

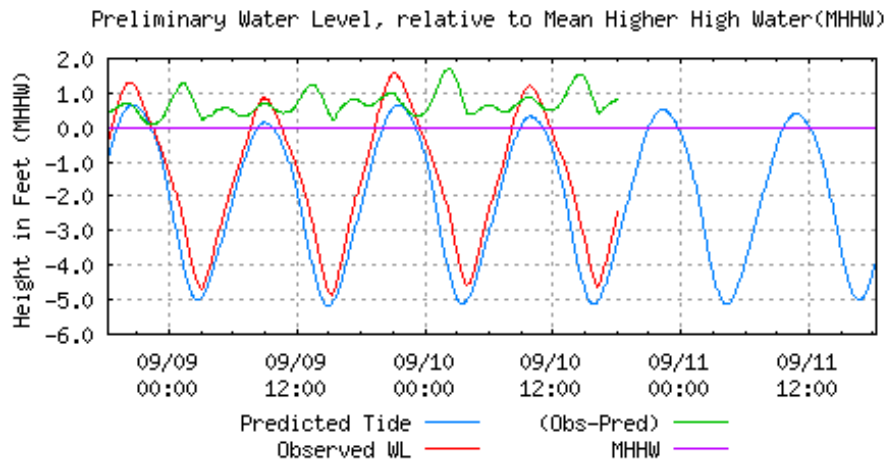
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 09/10/2018 18:06 (EDT)

Barometric Pressure: 1014.1 mb

NOAA/NOS/CO-OPS 8662245 Oyster Landing (N Inlet Estuary), SC



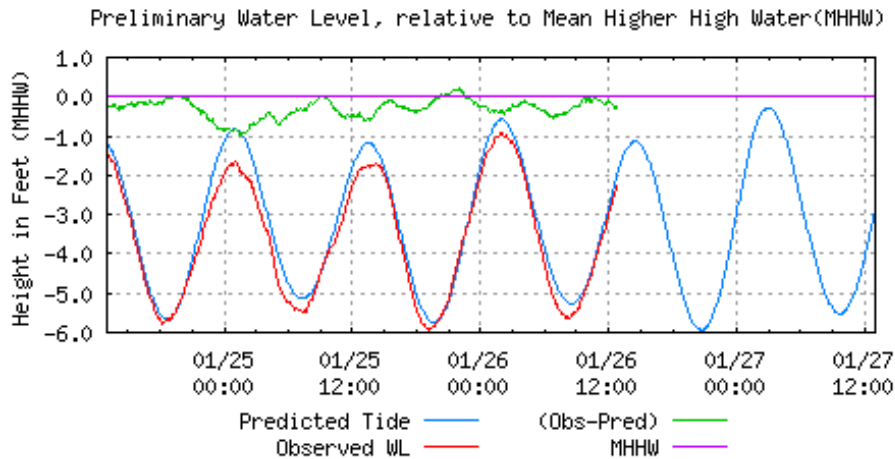
Last Observed Sample: 09/10/2018 18:06 (EDT). Data relative to MHHW

Observed: -2.43 ft. Predicted: -3.26 ft. Residual: 0.83 ft.

Historical Maximum Water Level: Oct 8 2016, 4.64 ft.

Next High Tide: 09/10/2018 22:17 (EDT), 0.52 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC



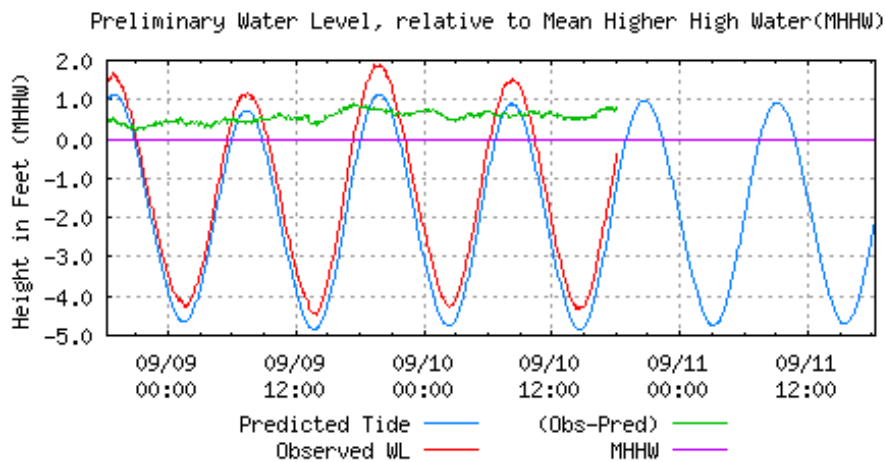
Last Observed Sample: 01/26/2018 12:48 (EST). Data relative to MHHW

Observed: -2.28 ft. Predicted: -2.01 ft. Residual: -0.27 ft.

Historical Maximum Water Level: Sep 21 1989, 8.77 ft.

Next High Tide: 01/26/2018 14:31 (EST), -1.14 ft.

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



Last Observed Sample: 09/10/2018 18:06 (EDT). Data relative to MHHW

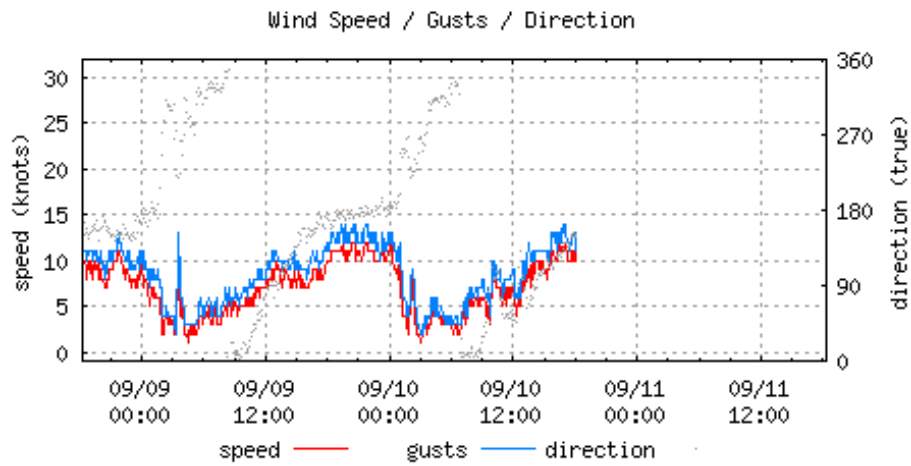
Observed: -0.36 ft. Predicted: -1.15 ft. Residual: 0.79 ft.

Historical Maximum Water Level: Oct 4 2015, 2.97 ft.

Next High Tide: 09/10/2018 20:39 (EDT), 0.99 ft.



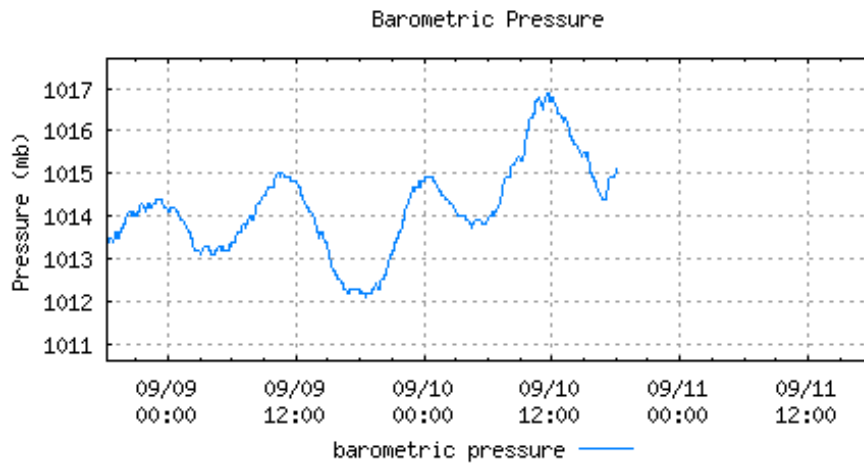
NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



Last Observed Sample: 09/10/2018 18:06 (EDT)

Wind Speed: 10 knots Gusts: 11 knots Direction: 151° T

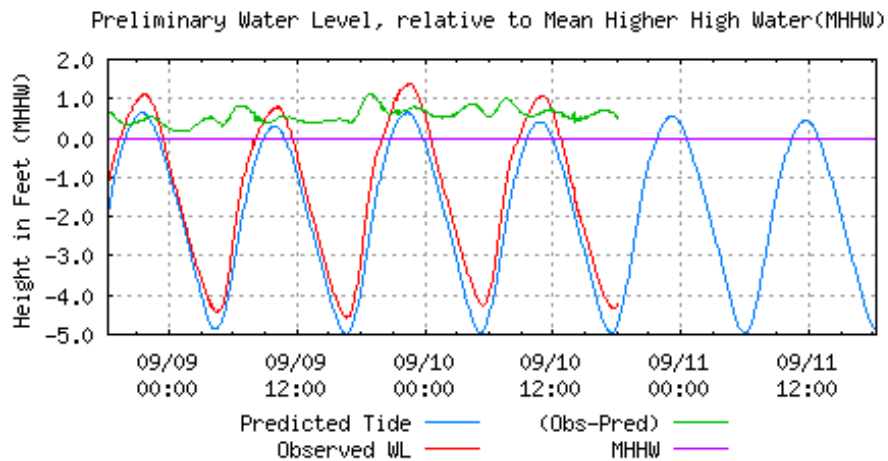
NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



Last Observed Sample: 09/10/2018 18:06 (EDT)

Barometric Pressure: 1015.1 mb

NOAA/NOS/CO-OPS 8658120 Wilmington, NC



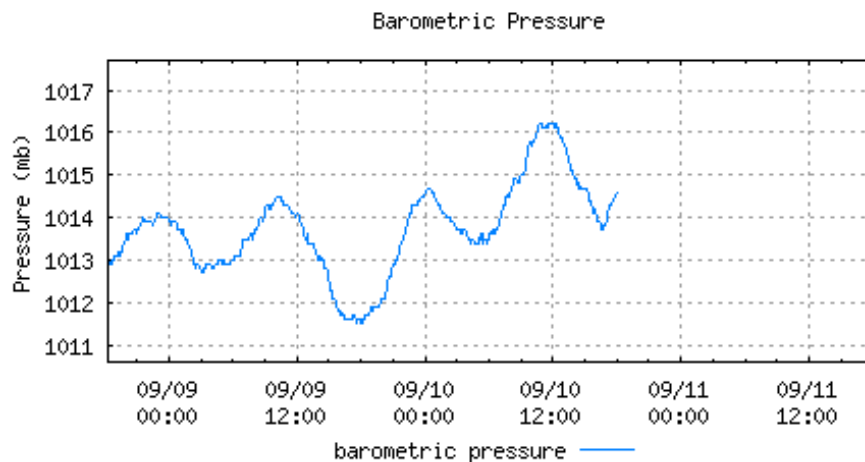
Last Observed Sample: 09/10/2018 18:06 (EDT). Data relative to MHHW

Observed: -4.22 ft. Predicted: -4.73 ft. Residual: 0.51 ft.

Historical Maximum Water Level: Oct 8 2016, 3.48 ft.

Next High Tide: 09/10/2018 23:10 (EDT), 0.55 ft.

NOAA/NOS/CO-OPS 8658120 Wilmington, NC

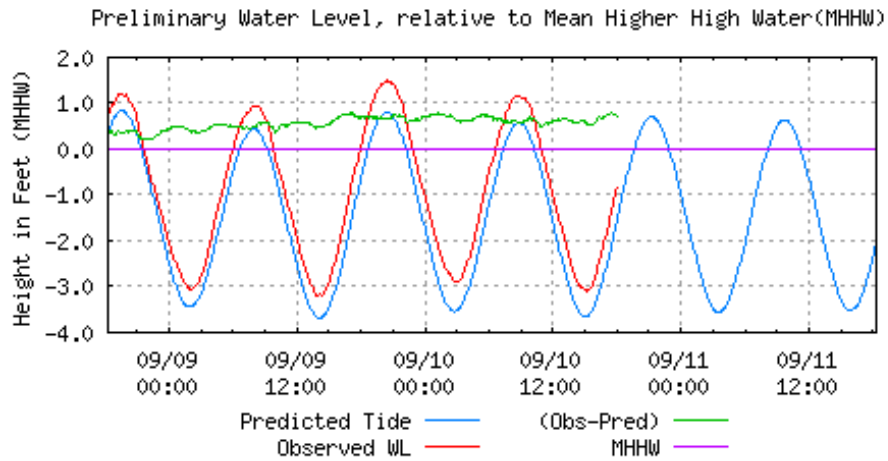


Last Observed Sample: 09/10/2018 18:06 (EDT)

Barometric Pressure: 1014.6 mb



NOAA/NOS/CO-OPS 8656483 Beaufort, Duke Marine Lab, NC



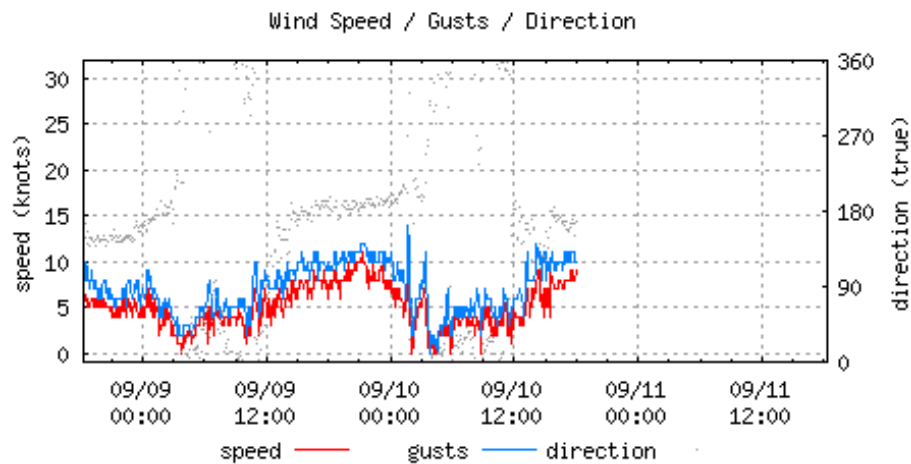
Last Observed Sample: 09/10/2018 18:06 (EDT). Data relative to MHHW

Observed: -0.73 ft. Predicted: -1.46 ft. Residual: 0.73 ft.

Historical Maximum Water Level: Sep 19 1955, 3.39 ft.

Next High Tide: 09/10/2018 21:16 (EDT), 0.70 ft.

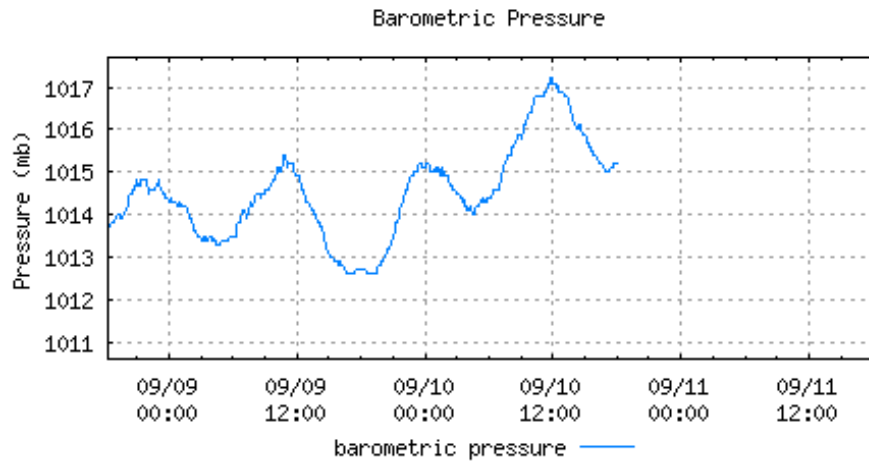
NOAA/NOS/CO-OPS 8656483 Beaufort, Duke Marine Lab, NC



Last Observed Sample: 09/10/2018 18:06 (EDT)

Wind Speed: 8 knots Gusts: 11 knots Direction: 170° T

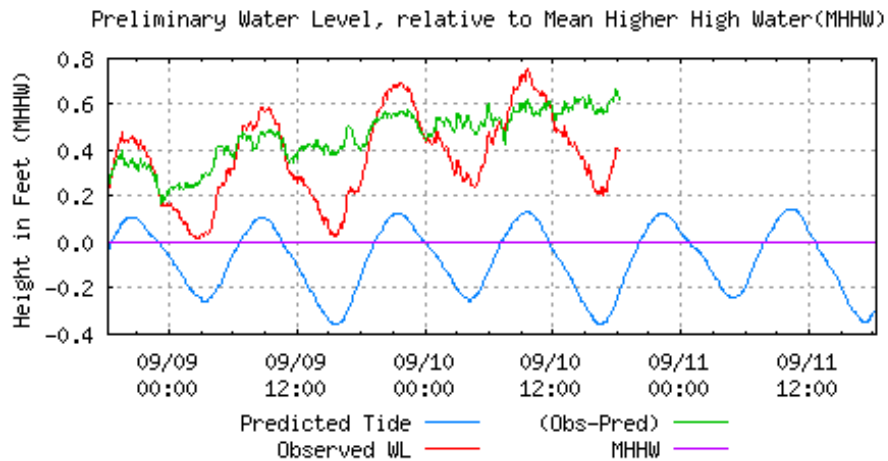
NOAA/NOS/CO-OPS 8656483 Beaufort, Duke Marine Lab, NC



Last Observed Sample: 09/10/2018 18:06 (EDT)

Barometric Pressure: 1015.2 mb

NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC



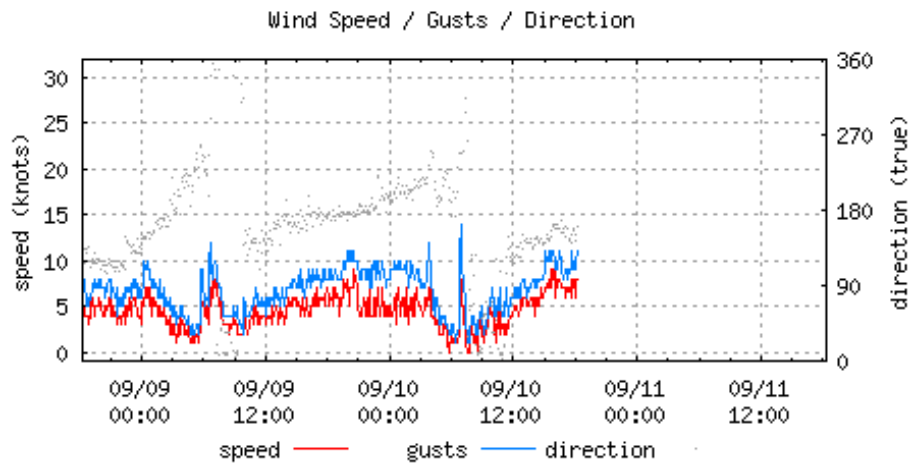
Last Observed Sample: 09/10/2018 18:12 (EDT). Data relative to MHHW

Observed: 0.40 ft. Predicted: -0.22 ft. Residual: 0.62 ft.

Historical Maximum Water Level: Oct 9 2016, 5.76 ft.

Next High Tide: 09/10/2018 22:15 (EDT), 0.13 ft.

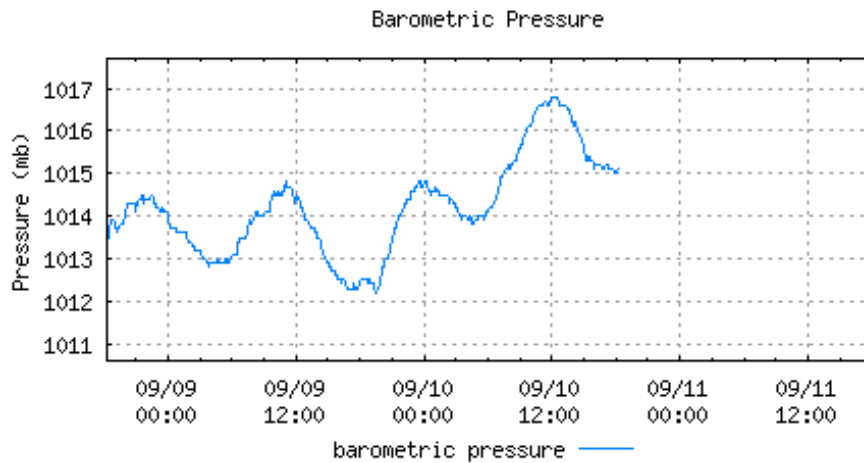
NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC



Last Observed Sample: 09/10/2018 18:12 (EDT)

Wind Speed: 8 knots Gusts: 11 knots Direction: 160° T

NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC

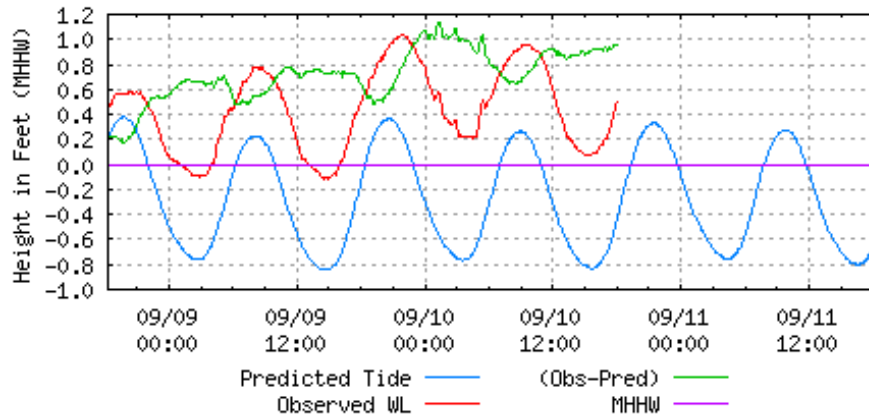


Last Observed Sample: 09/10/2018 18:12 (EDT)

Barometric Pressure: 1015.1 mb

NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 09/10/2018 18:00 (EDT). Data relative to MHHW

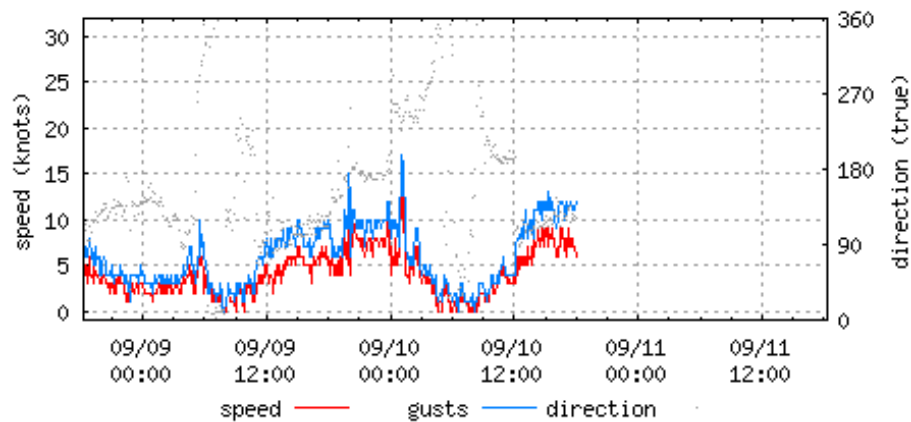
Observed: 0.50 ft. Predicted: -0.45 ft. Residual: 0.95 ft.

Historical Maximum Water Level: Aug 28 2011, 6.31 ft.

Next High Tide: 09/10/2018 21:27 (EDT), 0.33 ft.

NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC

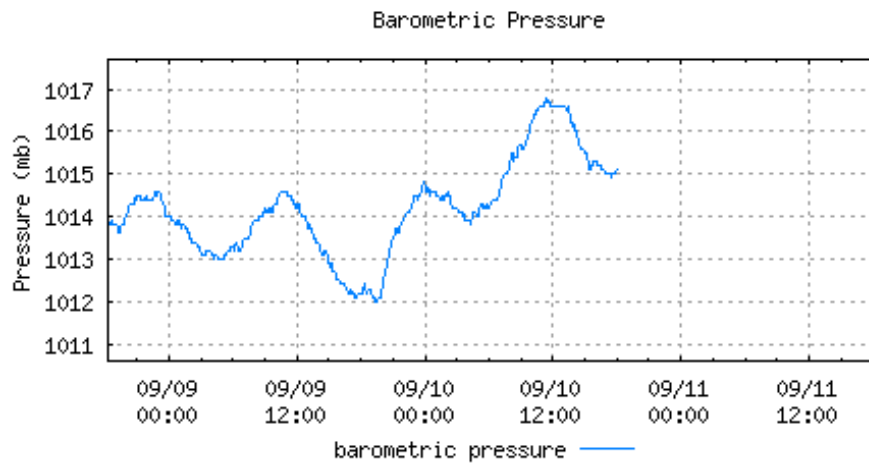
Wind Speed / Gusts / Direction



Last Observed Sample: 09/10/2018 18:00 (EDT)

Wind Speed: 6 knots Gusts: 12 knots Direction: 121° T

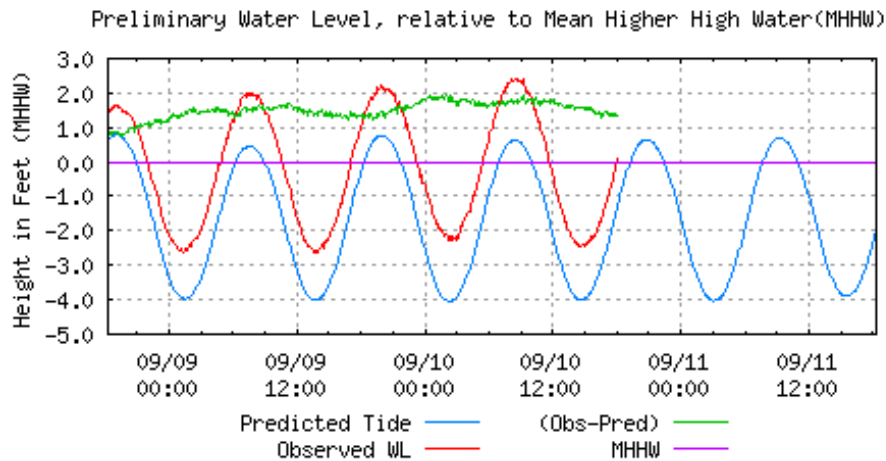
NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC



Last Observed Sample: 09/10/2018 18:00 (EDT)

Barometric Pressure: 1015.1 mb

NOAA/NOS/CO-OPS 8651370 Duck, NC



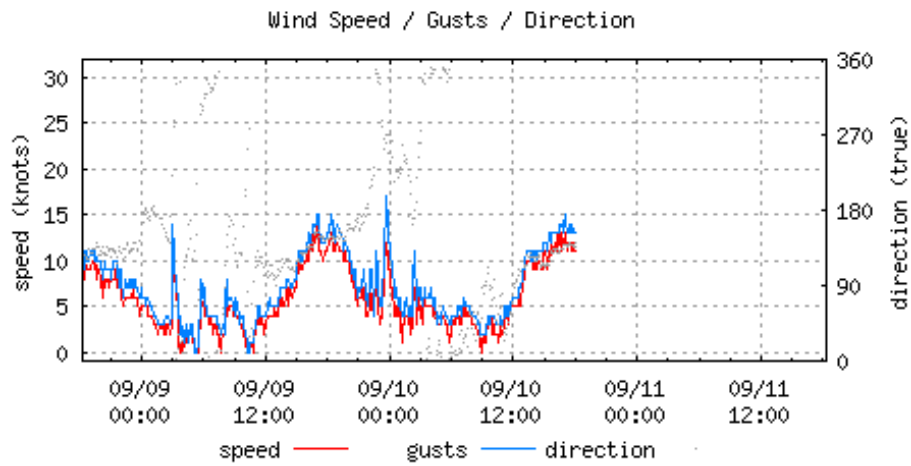
Last Observed Sample: 09/10/2018 18:06 (EDT). Data relative to MHHW

Observed: 0.11 ft. Predicted: -1.24 ft. Residual: 1.35 ft.

Historical Maximum Water Level: Sep 18 2003, 4.13 ft.

Next High Tide: 09/10/2018 20:46 (EDT), 0.64 ft.

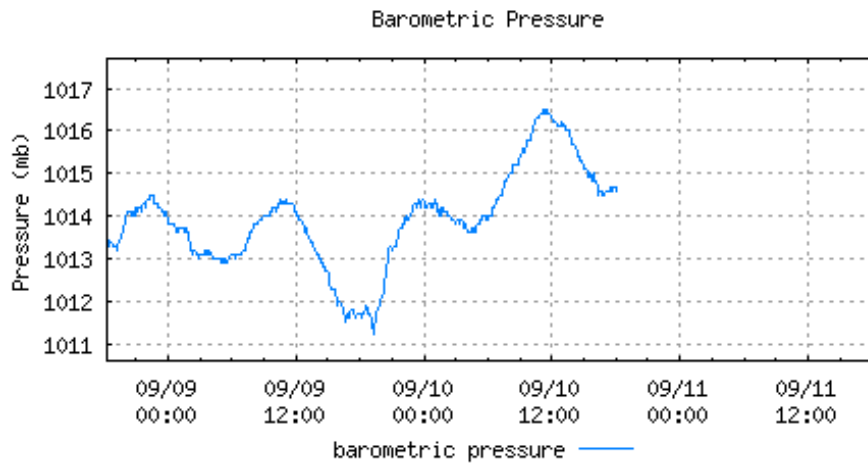
NOAA/NOS/CO-OPS 8651370 Duck, NC



Last Observed Sample: 09/10/2018 18:06 (EDT)

Wind Speed: 11 knots Gusts: 13 knots Direction: 140° T

NOAA/NOS/CO-OPS 8651370 Duck, NC

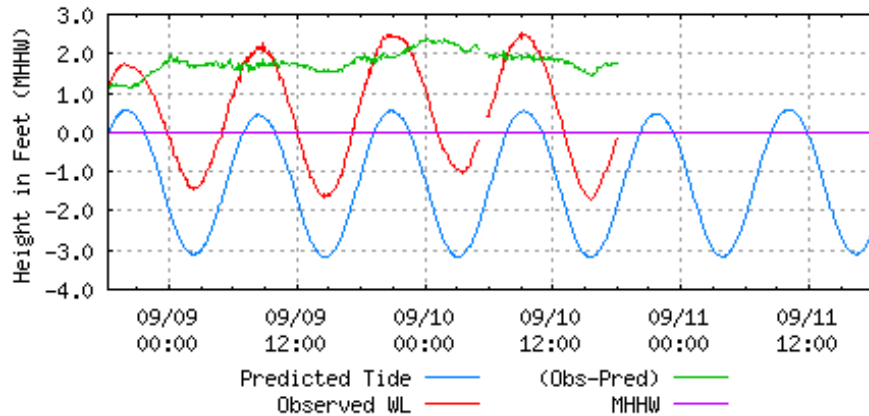


Last Observed Sample: 09/10/2018 18:06 (EDT)

Barometric Pressure: 1014.7 mb

NOAA/NOS/CO-OPS 8638901 CBBT, Chesapeake Channel, VA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 09/10/2018 18:00 (EDT). Data relative to MHHW

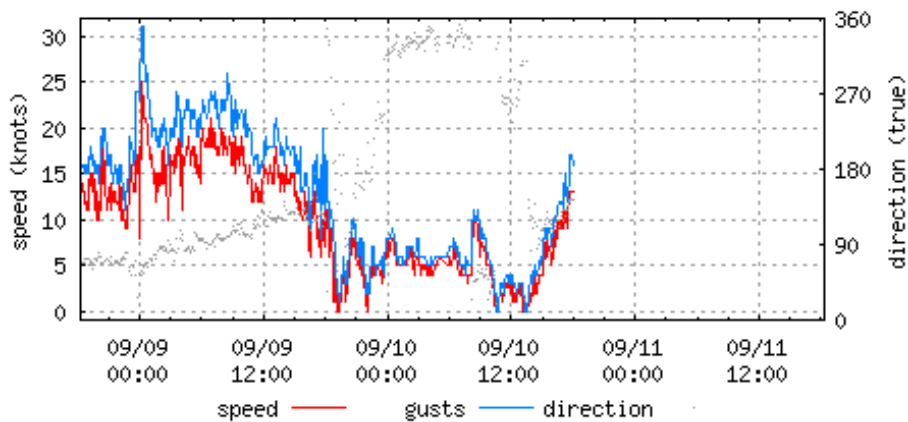
Observed: -0.15 ft. Predicted: -1.89 ft. Residual: 1.74 ft.

Historical Maximum Water Level: n/a

Next High Tide: 09/10/2018 21:41 (EDT), 0.47 ft.

NOAA/NOS/CO-OPS 8638901 CBBT, Chesapeake Channel, VA

Wind Speed / Gusts / Direction

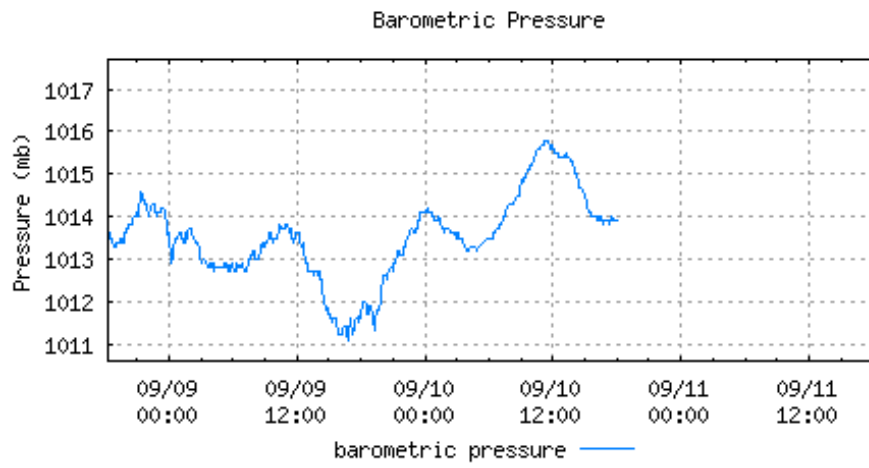


Last Observed Sample: 09/10/2018 18:00 (EDT)

Wind Speed: 13 knots Gusts: 16 knots Direction: 143° T



NOAA/NOS/CO-OPS 8638901 CBBT, Chesapeake Channel, VA



Last Observed Sample: 09/10/2018 18:00 (EDT)

Barometric Pressure: 1013.9 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
8665530	Charleston, Cooper River Entrance, SC	09/10/2018 18:06 (EDT)	-1.91 ft	-2.64 ft	0.73 ft	1.78 ft
8662245	Oyster Landing (N Inlet Estuary), SC	09/10/2018 18:06 (EDT)	-2.43 ft	-3.26 ft	0.83 ft	1.58 ft
8661070	Springmaid Pier, SC	01/26/2018 12:48 (EST)	-2.28 ft	-2.01 ft	-0.27 ft	-0.91 ft
8658163	Wrightsville Beach, NC	09/10/2018 18:06 (EDT)	-0.36 ft	-1.15 ft	0.79 ft	1.90 ft
8658120	Wilmington, NC	09/10/2018 18:06 (EDT)	-4.22 ft	-4.73 ft	0.51 ft	1.37 ft
8656483	Beaufort, Duke Marine Lab, NC	09/10/2018 18:06 (EDT)	-0.73 ft	-1.46 ft	0.73 ft	1.49 ft
8654467	USCG Station Hatteras, NC	09/10/2018 18:12 (EDT)	0.40 ft	-0.22 ft	0.62 ft	0.76 ft
8652587	Oregon Inlet Marina, NC	09/10/2018 18:00 (EDT)	0.50 ft	-0.45 ft	0.95 ft	1.04 ft
8651370	Duck, NC	09/10/2018 18:06 (EDT)	0.11 ft	-1.24 ft	1.35 ft	2.42 ft
8638901	CBBT, Chesapeake Channel, VA	09/10/2018 18:00 (EDT)	-0.15 ft	-1.89 ft	1.74 ft	2.52 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce